selectively binds a KGF polypeptide comprising the amino acid sequence of Figure 7.

- 93. A polypeptide that is a portion of a keratinocyte growth factor (KGF) protein, wherein said KGF protein has a molecular weight of between about 16 and 30 kDa as determined by SDS/PAGE under reducing conditions wherein said polypeptide is useful in producing antibodies that bind said KGF protein and wherein said polypeptide is not a portion of acidic fibroblast growth factor, basic fibroblast growth factor, epidermal growth factor, transforming growth factor-alpha, granulocyte/macrophage colony stimulating factor or interleukin 3.
- 94. An isolated keratinocyte growth factor (KGF) polypeptide, wherein said polypeptide has a molecular weight of between about 16 and 30 kDa as determined by SDS/PAGE under reducing conditions, comprises amino acids 32-78 of Figure 7 and has mitogenic activity on BALB/MK keratinocyte cells.
- 95. The polypeptide of claim 94, wherein five nanomolar concentration of said polypeptide elicits less than one-fold stimulation over background in NIH/3T3 cells in a H³ thymidine incorporation bioassay.
- 96. An isolated keratinocyte growth factor (KGF) polypeptide comprising (i) an amino acid sequence which has (a) an N-

terminal region which comprises a sufficient number of consecutive amino acids 32-64 of Figure 7 to confer on said polypeptide epithelial cell specificity, said N-terminal region being peptide bonded to (b) a C-terminal core region comprising amino acids 65-157 and 161-189 of Figure 7.

- 97. The polypeptide of claim 96, which has a conservative amino acid substitution at an amino acid within amino acids 65-157 or amino acids 161-189 of Figure 7.
- 98. The polypeptide of claim 97, which causes a greater stimulation in BALB/MK keratinocyte cells relative to NIH/3T3 fibroblasts than does epidermal growth factor (EGF), transforming growth factor-alpha (TGF-alpha), acidic fibroblast factor (aFGF) or basic fibroblast growth factor (bFGF) as measured by percent of maximal H³-thymidine incorporation.
- 99. The polypeptide according to claim 97, wherein an amount of said polypeptide that stimulates maximal thymidine incorporation in BALB/MK keratinocyte cells, stimulates less than one-fold stimulation over background in NIH/3T3 fibroblasts.
- 100. The polypeptide according to claim 97, wherein an amount of said polypeptide that stimulates maximal thymidine incorporation in

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BALB/MK keratinocyte cells, stimulates less then 1/50<sup>th</sup> of the maximal thymidine incorporation in NIH/3T3 cell stimulated by aFGF or bFGF.

- 101. The polypeptide according to claim 97, wherein an amount of said polypeptide that stimulates maximal thymidine incorporation in BALB/MK keratinocyte cells, stimulates less than 1/10<sup>th</sup> of the maximal thymidine incorporation in NIH/3T3 fibroblasts stimulated by EGF or TGF-alpha.
- 102. The polypeptide according to claim 97, wherein the maximal thymidine incorporation in BALB/MK keratinocytes stimulated by said polypeptide obtained within the concentration range of 0.1 to 3 nanomolar is at least twice that obtained with bFGF within the same concentration range.
- 103. The polypeptide according to claim 96, wherein said polypeptide further comprises Met at the amino terminus.
- 104. The polypeptide according to Claim 96, wherein said polypeptide is unglycosylated.
- 105. The polypeptide of claim 96, wherein said polypeptide causes a greater stimulation in BALB/MK keratinocyte cells relative to NIH/3T3 fibroblasts than does epidermal growth factor (EGF),

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transforming growth factor-alpha (TGF-alpha), acidic fibroblast growth factor (aFGF) or basic fibroblast growth factor (bFGF), as measured by percent of maximal H-thymidine incorporation in each cell type.

- 106. A pharmaceutical composition comprising the polypeptide according to one of claims 92 to 105 and a pharmaceutically acceptable carrier.
  - 107. A method of producing a KGF polypeptide comprising:
    - (a) expressing a DNA encoding a KGF polypeptide in a host cell; and
    - (b) isolating the KGF polypeptide from the cell.
- 108. A method of producing a KGF polypeptide or segment thereof, comprising:
- (a) expressing a DNA encoding a KGF polypeptide or segment thereof in a host cell; and
- (b) isolating the KGF polypeptide or segment thereof from the cell.

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